

CLIMATOLOGICAL DATA FOR FEBRUARY, 1912.

DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

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As a whole the weather was remarkably mild. Temperatures below zero were experienced at only the more elevated stations, and there were no well-defined warm or cold spells. The soil was in excellent condition for absorbing much of the rain and melted snow, and agricultural operations were begun. Vegetation began to take on new life, and in the more favored localities west of the Cascade Mountains fruit buds began to swell, but as a rule did not reach a sufficiently advanced stage of growth to render them susceptible to injury from frosts. In the eastern portions of the district fruit buds were reported as still dormant. The country roads in many sections were in a muddy condition and very unfavorable for vehicle traffic during most of the month. Railroad transportation, construction, and farm work proceeded without serious interruption. Ranges were in excellent condition and very little dry feeding was done. Although there is probably less than the usual amount of snow remaining on the ground in mountainous sections, it is quite compact and generally contains a large percentage of water. The indications are that an ample supply of water will be available for all purposes during the coming season.

TEMPERATURE.

The average temperature as determined from 268 stations was 35.8° , or 3° above the normal. The mean temperatures were lowest in elevated sections of the extreme eastern portion of the district and were highest west of the Cascade Mountains and along the Oregon-Washington State line. There were no marked cold or warm periods, but east of the Cascade Mountains the mean daily temperatures were lowest on the first 3 or 4 days of the month and during the last decade; in most cases the absolute minimum temperatures for the month were recorded some time during the latter period. The highest mean temperature was 48.4° at Fairview, Glendale, and Newport, Oreg., and the lowest was 12.2° at Moran, Wyo. The highest temperature recorded was 69° at Monroe, Oreg., on the 9th, and the lowest was -29° at Pierson, Idaho, on the 28th.

PRECIPITATION.

The average precipitation as determined from the records of 376 stations was 3.29 inches, or 0.25 inch below the normal. About the only excesses were near the coast in southwestern Oregon, near the mouth of the Columbia River, on the Cascade and Blue Mountains in Oregon, in northern Idaho, and in the southeastern Wash-

ington-Idaho border counties. The greatest deficiencies were in western and northern Washington and western Oregon. Only local precipitation, generally light, occurred during the first 3 days and the last 6 days of February, but it was quite well distributed throughout the remainder of the month. The greatest monthly amount recorded was 16.31 inches at Glenora, Oreg., in the coast drainage area, and the least was a trace at Willow Glen Stock Farm, Montana, on the Missoula watershed at an elevation of 5,064 feet. The snowfall was less than the average in most sections, and at the close of the month the only snow remaining on the ground was at the higher elevations, where the mild weather had caused it to become well packed. The greatest monthly snowfall reported, was 61 inches, at Snoqualmie Pass, Wash., at an elevation of 3,000 feet. The greatest 24-hour precipitation was 3.80 inches, at Glenora, Oreg., on the 15th.

THE RIVERS.

The Willamette River and tributaries were lower than in January, but the mean stages were from 1 to 2 feet above the February normal. The rains which set in early in the month caused a general rise in the streams, which reached a climax on the 18th, 19th, and 20th, when the maximum stages were recorded at most places. After this the rivers fell until the end of the month.

The Columbia and Snake Rivers were from 1 to 2 feet above normal and were higher than in the preceding month. The highest stages occurred on the 18th, 19th, and 20th, and the lowest during the fore part of the month.

MISCELLANEOUS PHENOMENA.

A peculiar and unusual optical phenomenon occurred at Portland and vicinity on the morning of the 20th, and consisted of a long shadow of Mount Hood thrown upon the clouded sky a minute or so before sunrise. The dark shadow made a beautiful spectacle as it reached from the eastern horizon to the zenith and stood out in sharp contrast to the crimson clouds on either side. Hail and sleet occurred at Tatoosh Island on the 18th and storms of similar character were reported quite generally during the second decade in northern Oregon from near the mouth of the Columbia to the Blue Mountains. Fog was of most frequent occurrence at Seattle, North Head, Roseburg, and in central Oregon. Thunderstorms occurred at Doraville, Weston, and Welches. The highest wind velocity was 73 miles per hour from the southeast on the 15th at North Head, Wash.

TABLE No. 1.—Climatological data for February, 1912. District No. 12, Columbia Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unbroken.	Number of clear days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
<i>Montana.</i>																			
Anaconda.....	Deer Lodge.....	5,300	10	28.2	50	6	0	28	34	0.21	-0.42	0.06	3.7	5	5	16	8	C. D. Demond.	
Butte.....	Silver Bow.....	5,716	17	28.0	+ 3.3	50	6	-1	28	30	0.55	-0.26	0.25	5.5	4	11	3	nw.	J. R. Wharton.
Columbia Falls.....	Flathead.....	3,100	16	26.9	+ 2.6	48	24	0	2	37	1.63	-0.01	0.45	13.0	12	8	18	3	J. M. Grist.
Como **§.....	Ravalli.....	3,700	3	32.2	48	9†	10	25†	29	0.84	0.40	0.48	8.0	8	4	13	12	Hiram Platt.	
East Anaconda §.....	Deer Lodge.....	5,500	6	26.7	45	9	1	28	27	0.28	0.13	0.16	3.1	7	5	16	8	C. D. Demond.	
Fortine.....	Lincoln.....	2,975	6	27.4	48	14	-4	37	36	0.39	0.07	0.45	6	7	5	14	w.	Mike Petery.	
Hamilton.....	Ravalli.....	3,575	9	33.2	+ 3.1	50	9†	11	28	25	0.37	-0.21	0.25	T.	4	8	14	7	Chamber of Commerce.
Hat Creek.....	Powell.....	6,000	2	28.6	50	6	-1	28	30	0.57	0.23	0.23	17.6	11	5	4	20	M. K. Landreth.	
Hangan.....	Missoula.....	3,150	0	28.6	47	11	-7	27	45	3.21	0.42	0.42	18.0	16	3*	10*	15*	U. S. Forest Service.	
Kalispell.....	Flathead.....	2,965	13	27.9	+ 3.9	46	6	2	24	48	-1.02	0.19	0.26	1.9	10	2	11	15	U. S. Weather Bureau.
Libby.....	Lincoln.....	2,055	2	31.2	48	16	3	4	32	0.55	0.14	0.16	2.5	11	3	20	6	U. S. Forest Service.	
Lost Creek.....	Deer Lodge.....	5,200	5	28.4	48	11	-10	27	30	0.32	0.16	0.16	9.0	3	10	8	11	Frank Hanault.	
Missoula.....	Missoula.....	3,225	32	32.6	+ 8.0	49	14†	11	29	27	0.27	-0.59	0.14	3.0	7	5	14	w.	U. S. Weather Bureau.
Ophir.....	Powell.....	6,800	3	28.6	44	15	-10	25	44	1.46	-0.48	0.29	15.8	9	3	26	0	E. S. Wilton.	
Ovando.....	do.....	4,207	12	23.8	+ 5.1	44	15	-10	25	44	0.43	0.10	0.45	5	14*	3*	1*	sw.	S. B. Muchnore.
Philipsburg.....	Granite.....	5,275	8	33.8	+ 6.3	49	10†	15	47	26	0.46	-0.19	0.26	5.0	2	4	4	21	G. T. Bramble.
Plains.....	Sanders.....	2,475	13	27.4	48	7†	-11	28	38	1.04	0.16	0.16	12.7	8	2	14	13	M. H. Pierce.	
Pleasant Valley.....	Flathead.....	3,500	4	27.4	48	7†	-11	29	19	0.59	0.52	0.43	3	3	0	26	w.	A. D. Stillman.	
Polson.....	do.....	2,920	4	31.8	44	11†	11	29	19	0.20	0.20	0.20	2.0	1	13	0	16	F. P. Brown.	
Proctor.....	do.....	2,800	7	29.3	45	12†	10	29	26	0.20	0.13	0.13	4.0	8	2	13	14	C. E. Proctor.	
Saint Ignatius.....	Missoula.....	2,700	6	32.4	50	16	12	27	26	0.60	0.13	0.13	8	14	0	15	w.	U. S. Reclamation Service.	
Saltsee.....	do.....	3,600	7	31.6	49†	-	10*	28	26	2.90	0.83	18.0	8	6	0	15	w.	E. K. Tarbox.	
Stevensville.....	Ravalli.....	2,462	33.8	51	10	10	27	28	1.27	0.45	0.45	4.5	12	6	7	16	w.	F. F. Powell.	
Thompson Falls.....	Sanders.....	5,064	1	24.7	41	10	4	29	35	T.	T.	T.	0	20	0	9	sw.	U. S. Forest Service.	
Willow Glen St'k Farms	Deer Lodge.....																	G. E. Luce.	
<i>Wyoming.</i>																			
Afton.....	Uinta.....	6,200	8	19.6	45	10†	-14	29	41	0.80	-0.25	15.0	7	13	0	16	s.	A. V. Call.	
Alta.....	do.....	7,000	2	17.6	42	7	-22	28	48	1.19	-0.25	13.2	6	6	8	15	sw.	Mrs. Lucy Brown.	
Bechler River.....	do.....																s.	U. S. Army.	
Bedford.....	do.....																w.	G. G. Helner.	
Moran.....	do.....																sw.	U. S. Reclamation Service.	
Snake River.....	Yellowstone Park.....																w.	U. S. Army.	
<i>Nevada.</i>																			
San Jacinto.....	Elko.....		7	34.9	-	62	8	9	25	44	0.82	-0.42	1.0	3	9	0	20	sw.	Mose Jones.
<i>Utah.</i>																			
Standrod.....	Boxelder.....		7	30.6	-	49	7	7	25	30	0.73	-0.23	7.5	9	14	5	10	sw.	J. B. Jones.
<i>Idaho.</i>																			
Albion.....	Cassia.....	4,650	10	32.0	+ 1.0	50	13	-1	25	34	0.81	0.20	0.5	9	8	16	5	w.	C. E. Bocock.
Almo.....	do.....	3	-	29.6	+ 2.5	48	13	1	2	33	0.94	-0.30	0.49	4	22	6	1	ne.	Wm. D. Cahoon.
American Falls.....	Oneida.....	4,341	21	29.6	+ 2.5	48	13	1	2	29	0.24	0.65	9.0	13	14	10	5	a.	Geo. Stoll.
Arrow Rock.....	Boise.....	3,100	33.6	54	16	10	29	24	43	0.81	0.00	0.28	7.8	7	5	16	8	U. S. Reclamation Service.	
Blackfoot.....	Bingham.....	4,503	16	28.0	+ 1.7	44	13	-9	28	43	0.21	0.30	0.20	0.0	11	6	12	10	E. A. Dowd.
Blackfoot Dam.....	Bannock.....	6,200	3	31.6	38	11	-17	2	44	1.92	0.71	14.0	11	1	11	0	16	N. W. Irfield.	
Bogus Creek.....	Elnore.....	3,500	3	31.6	38	11	-17	2	44	1.36	0.60	13.0	13	6	18	5	16	Wm. Bock.	
Boise.....	Ada.....	4,200	4	31.6	32	16	-19	25	41	1.84	+ 0.38	0.49	5.1	12	4	6	19	F. P. Ingraham.	
Bonners Ferry.....	Bonner.....	1,850	5	31.6	47	11†	8	28	30	0.90	0.33	4.0	5	11	16	2	sw.	U. S. Weather Bureau.	
Boulder Mine.....	Boise.....	4,800	3	31.6	47	11†	8	28	30	0.90	0.37	0.74	2.9	2	14	5	10	Patrick Moriarty.	
Buhl.....	Twin Falls.....	3,800	5	35.1	52	12	19	24	31	1.81	1.00	2.0	5	7	14	8	w.	W. H. Heldeman.	
Caldwell.....	Canyon.....	2,372	8	37.3	58	16	19	28	37	1.80	0.47	0.47	3.1	3	21	5	sw.	Thos. H. Holmes.	
Camas.....	Fremont.....	4,815	4	21.7	49	16	-11	2	45	0.22	0.10	0.25	3	4	13	12	sw.	Wm. J. Boone.	
Cambridge.....	Washington.....	2,651	16	30.2	+ 3.0	50	16	3	28	33	0.24	+ 0.62	0.80	11.0	8	7	19	sw.	Mrs. Ednah Faulkner.
Cedar Creek Dam.....	Twin Falls.....	5,220	16	28.4	51	16	3	28	33	0.24	0.12	0.12	9.5	11	6	17	sw.	Chas. H. Shepherd.	
Chesterville.....	Bannock.....	5,424	16	24.0	+ 3.7	47	8†	-15b	28†	56b	1.13	+ 0.16	0.36	12.0	5	14	8	nw.	Robert Hoffman.
Clarks Fork.....	Kootenai.....	2,084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Chas. S. West.	
Clyde.....	Custer.....																	Wm. Potter.	
Council.....	Adams.....	3,059	30.7	45	8†	8	25	31	57	2.57	0.50	7.3	11	2	14	13	nw.	R. L. Sutcliffe.	
Culdesac.....	Nez Perce.....	1,520	4	35.6	48	10†	19	28	33	2.18	1.10	2.0	3	7	12	10	sw.	F. L. Featherston.	
Deary.....	Latah.....	2,854	31.2	47	6	5	29	35	41	1.25	0.26	3.5	6	8	15	7	w.	R. R. Richmon.	
Dent.....	Clearwater.....	1,350	6	37.4	51	6†	19	26	31	4.66	0.81	11.5	14	6	7	5	17	w.	W. J. Davis.
Driggs.....	Fremont.....	6,097	5	16.7	39	8†	-21	28	43	0.74	0.25	9.5	6	7	5	17	s.	Emil Schuessler.	
Emmett.....	Canyon.....	2,350	5	36.8	57	16	20	25	25	0.94	0.27	1.2	9	3	7	19	ne.	Walter H. Durrant.	
Forney.....	Lemhi.....	6,000	12	25.3	+ 1.3	49	14	-12	25	48	1.50	-0.16	0.90	8.9	3	5	11	13	U. S. Forest Service.
Garden Valley.....	Boise.....	3,600	4	31.6	61	16	23	23†	29	1.10	+ 0.25	0.51	3.51	1	9	9	9	e.	Mrs. Gertrude M. Ross.
Garnet.....	Elmore.....	2,575	13	40.0	+ 2.6	61	16	23	23†	29	1.10	-0.25	0.51	3.51	11	9	9	9	Asa A. Kenison.
Glenns Ferry.....	Boise.....	2,569	4	37.1	58	10	18	28	36	1.89	0.64	1.0	5	8	11	5	13	I. E. Perkins.	
Gooding.....	Lincoln.....	3,572	3	32.4	49	16	11	26	32	1.24	0.33	0.5	7	5	12	12	w.	John Krall, Jr.	
Grand Forks.....	Shoshone.....	3,000	3	30.2	44	6	0	28	38	5.39	1.04	23.8	19	5	6	18	w.	J. E. Keach.	
Grandview.....	Owyhee.....	3	38.0	58	16	20	25	26	1.19	0.46	0.0	10	4	6	19	nw.	N. G. Massey.		
Grimes Pass.....	Bolse.....	5,200	3	33.6	55	16	21	25	32	2.36	0.56	19.7	15	2	27	0	e.	Joseph M. Clarke.	
Gufey.....	Owy																		

TABLE 1.—*Climatological data for February, 1912. District No. 12—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.					Sky.				Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
<i>Idaho—Continued.</i>																				
Middle Fork.....	Idaho.....	1,397	2	38.5 ^c	.....	52 ^c	12	22 ^c	3	24 ^c	4.53	.....	0.69	5.0	14	2	19	8	.....	Jos. McGhee.
Milner.....	Twin Falls.....	4,110	3	32.0	.....	48	13†	13	2	22	1.33	.....	0.66	3.0	6	2	19	8	w.	J. K. Young.
Moscow.....	Latah.....	2,748	20	33.8	+ 2.1	49	10	11	24†	29	3.50	+ 1.34	0.75	1.4	6	8	11	15	se.	University of Idaho.
Mountainhome.....	Elmore.....	3,150	7	35.0	.....	52	16	15	25	24	1.93	.....	0.65	4.0	10	7	11	11	nw.	Mrs. Ellen Manion.
Murtaugh.....	Twin Falls.....	6	32.2 ^b	50 ^b	13	10 ^b	4	26 ^b	1.96	.....	0.75	.....	0	.....	.....	.....	.....	.....	w.	J. E. Steinour.
New Meadows.....	Adams.....	3,950	8	38.5 ^c	.....	48	9†	6	28	32	2.10	.....	0.65	12.0	6	13	6	10	.....	P. G. Williams.
Nepper.....	Lewis.....	3,082	3	33.1	.....	52	3†	12	25†	36	1.15	+ 0.31	0.40	0	5	6	13	10	.....	P. Mitchell.
Oakley.....	Cassia.....	4,700	19	32.4	+ 1.2	52	3†	12	25†	36	1.15	+ 0.31	0.40	0	5	6	13	10	.....	John Adams.
O'Hara Bar.....	Idaho.....	1,557	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	n.	J. D. Agnew.
Orofino.....	Clearwater.....	1,027	8	37.4	.....	56	16	19	3	28	4.85	.....	0.70	1.0	17	3	17	9	.....	Geo. Alteneder.
Payette.....	Canyon.....	2,159	22	36.4	+ 2.9	55	16	17	2	23	1.18	- 0.17	0.41	2.0	7	6	8	15	n.	E. F. Allen.
Peaceful Valley.....	do.....	2,325	1	.....	.....	43	17	- 10	29	41	1.91	.....	0.41	14.0	12	13	3	13	sw.	J. W. Newton.
Pebble.....	Bannock.....	5,277	3	22.2	.....	44	10†	- 29	28	57	1.36	.....	0.56	14.0	3	17	3	9	.....	Mrs. Fannie Say.
Pierson.....	Custer.....	7,000	2	14.0	.....	44	14†	7	23	36	2.04	.....	0.49	11.7	6	3	10	16	.....	David P. Clark.
Pine.....	Elmore.....	4,100	3	.....	.....	52	13†	15	25	23	1.34	.....	0.27	5.0	12	9	9	12	.....	Mrs. Jennie Potter.
Pleasant Valley.....	Ada.....	3,000	5	35.1	.....	45	7	8	25	25	0.92	+ 0.03	0.38	6.5	11	5	5	5	se.	C. E. Friedrich.
Pocatello.....	Bannock.....	4,483	13	31.2	+ 3.1	45	7	8	25	25	0.92	.....	.....	.....	.....	.....	.....	.....	.....	P. T. Wrensted.
Pocatello Nursery.....	do.....	5,396	5	.....	.....	46	24	6	23	33	3.30	.....	1.00	10.6	16	3	15	11	se.	C. M. Lawrence.
Poplar.....	Bonneville.....	5,500	2	24.4	.....	47	7	- 6	25†	44	1.23	.....	0.52	12.0	5	10	10	9	s.	H. A. French.
Porthill.....	Bonner.....	1,665	23	31.3	+ 4.1	47	14	11	29	24	1.08	- 0.90	0.34	2.5	6	15	6	8	.....	Mrs. Mary French.
Powers Ranch.....	Boise.....	4,300	3	.....	.....	46	8	5	28	29	4.17	.....	0.86	14.8	15	0	14	10	sw.	D. R. Brewster.
Priest River Exp. Sta. No. 1.....	Bonner.....	.....	.....	30.1	.....	46	8	5	28	29	3.30	.....	1.00	10.8	16	3	16	10	.....	.....
Priest River Exp. Sta. No. 2.....	do.....	.....	.....	31.8	.....	46	24	6	23	33	3.30	.....	1.00	10.6	16	3	15	11	se.	Do.
Priest River Exp. Sta. No. 3.....	do.....	.....	.....	30.4	.....	46	8†	- 1	23	39	3.30	.....	1.00	10.6	16	3	15	11	se.	Do.
Pyla Creek.....	do.....	3,100	3	.....	.....	46	13†	5	25	25	0.90	.....	0.35	0.5	8	11	8	10	s.	P. V. Smith.
Rattlesnake Creek.....	Elmore.....	4,000	3	.....	.....	43	8	3	28	34	2.84	.....	0.50	7.0	14	9	12	8	.....	Richard M. Green.
Ridfield.....	Lincoln.....	4,300	29.8	.....	.....	40	8	27	28	50	0.59	.....	0.20	4.7	5	9	17	3	sw.	Idaho Irrigation Co.
Roseberry.....	Boise.....	4,872	1	19.2	.....	44	14†	8	28	36	1.69	.....	0.33	17.5	5	8	14	7	n.	Dr. Wallace Johnson.
Ruby Creek.....	do.....	4,400	3	.....	.....	49	13†	5	25	25	4.29	.....	0.82	19.8	14	9	12	8	w.	O. A. Hatter.
Rupert.....	Lincoln.....	4,204	6	32.0	.....	49	13†	5	25	25	0.90	.....	0.35	0.5	8	11	8	10	w.	Will Parry.
St. Maries.....	Kootenai.....	2,263	15	33.9	+ 1.5	48	17	3	28	33	3.27	.....	0.53	8.9	13	5	11	13	nw.	J. S. Turnbull.
Salmon.....	do.....	4,040	7	22.3	.....	44	16†	5	25	34	0.80	.....	0.32	7.0	5	4	25	0	se.	B. C. Desum.
Sandpoint.....	Bonner.....	2,086	2	31.4	.....	45	14†	8	28	28	2.31	.....	0.64	6.7	5	9	4	16	s.	J. H. Edgerton.
Sheep Hill.....	Boise.....	5,000	3	.....	.....	46	10	8	25	25	3.90	.....	0.70	16.6	15	0	12	12	w.	Zell Truman.
Shoshone.....	Lincoln.....	3,968	4	30.8	.....	46	10	8	25	25	0.98	.....	0.25	4.0	8	2	26	1	w.	A. D. Bradfield.
Silver City.....	Owyhee.....	6,280	5	.....	.....	41	17	7	28	42	3.38	.....	1.31	20.3	15	7	9	13	sw.	Wm. W. Newell.
Smith Prairie.....	Elmore.....	5,200	3	.....	.....	47	7	- 1	29	40	2.98	.....	0.71	15.3	13	0	10	10	sw.	J. E. Minear.
Soldier Creek.....	Blaine.....	5,755	2	27.2	.....	47	7	1	29	40	1.06	.....	0.46	5.0	10	6	11	12	nw.	M. C. Krause.
Spirit Lake \$.....	Kootenai.....	2,560	3	32.4	.....	53	19	3	28	43	3.13	.....	0.83	3.7	7	9	10	10	ne.	A. M. Slattery.
Springfield.....	Bingham.....	4,420	4	36.2	.....	52	10†	4	25	34	0.33	.....	0.15	3.3	5	5	12	12	sw.	U.S. Weather Bureau.
Sugar.....	Fremont.....	5	21.8	.....	.....	41	17†	- 7	28	42	0.35	.....	0.15	5.5	4	.....	.....	.....	sw.	Col. M. W. Wood.
Sunnyside.....	Elmore.....	3	.....	.....	.....	46	13†	8	28	36	1.96	.....	0.60	15.0	11	13	0	10	w.	Mr. Verna Paddock.
Tripod Mountain.....	Boise.....	4,300	3	.....	.....	47	7	- 1	29	40	3.74	.....	0.92	.....	12	.....	.....	.....	w.	J. A. Waters.
Twin Falls.....	Twin Falls.....	3,825	7	32.2	.....	50	10†	14	7†	33	0.64	.....	0.61	14.8	10	13	4	12	.....	A. M. Slattery.
Vernon.....	Fremont.....	14	22.4	.....	.....	46	5	- 10	28	43	2.04	.....	0.36	9.2	10	9	10	10	sw.	U. S. Weather Bureau.
Wallace.....	Shoshone.....	2,728	5	32.4	.....	47	6	10	25	26	3.76	.....	0.74	.....	19	.....	.....	.....	e.	L. L. Jillson.
Weiser.....	Washington.....	2,114	4	37.6	.....	56	17	22	25	26	1.40	.....	0.28	2.5	11	10	6	13	w.	Chas. L. Dingler.
Wendell.....	Lincoln.....	3,400	4	34.3	.....	52	10	12	4	28	1.51	.....	0.50	4.0	5	12	7	10	w.	.....
<i>Washington.</i>																				
Aberdeen.....	Chehalis.....	162	20	43.4	+ 2.4	59	1	25	29	26	10.47	+ 0.24	2.08	0	18	4	23	2	e.	Carl S. Weatherwax.
Anacortes.....	Skagit.....	60	17	42.4	.....	53	13	27	25	21	2.23	- 0.71	0.51	0	14	9	17	3	.....	Douglas Allmond.
Baker.....	do.....	380	5	42.5	.....	54	2†	28	28†	26	6.74	.....	1.27	T.	14	8	3	18	.....	R. M. White.
Bellingham.....	Whatcom.....	60	16	44.2	+ 2.5	60	7	26	28	26	1.35	- 1.77	0.45	0	10	11	4	14	.....	S. B. Mayhew.
Bellingham, near.....	do.....	107	.....	42.5	.....	60	7	26	24†	23	2.58	.....	0.50	0	13	9	8	12	.....	U. S. Bur. Plant Industry
Blaine.....	do.....	57	14	41.4	+ 3.8	54	7	25	29	20	3.50	- 0.98	0.79	0	16	6	13	10	se.	J. W. Sheets.
Blewett.....	Chelan.....	2,200	1	.....	.....	46	18	10	23	29	1.96	.....	0.60	15.0	11	13	0	10	.....	John Burmeister.
Bremerton.....	Clallam.....	30	.....	.....	.....	46	18	10	23	29	0.68	.....	0.28	2.0	8	8	11	10	se.	U. S. navy yard.
Bumping Lake.....	Okanogan.....	1,620	1	31.1	.....	44	1	- 4	27	44	4.71	.....	1.00	43.5	16	9	2	18	.....	Mrs. H. F. Bertram.
Cedar River.....	King.....	3,400	28.2	.....	.....	44	1	- 4	27	44	5.33	.....	0.79	0	15	10	5	14	.....	U. S. Reclamation Service.
Centralia.....	Lewis.....	212	18	43.3	+ 2.8	60	1	23	28	29	5.35	+ 0.81	0.88	T.	17	7	12	10	s.	Geo. Landsburg.
Cheney.....	Spokane.....	2,351	12	33.0	+ 3.0	50	17	12	28†	30	3.28	- 0.26	0.60	3.0	14	11	0	9	ne.	I. S. Turner.
Cle Elum.....	Kittitas.....	1,930	12	33.0	+ 3.0	50	17	12	28†	30	3.28	- 0.26	0.60	3.0	14	11	0	9	ne.	J. A. Balmer.

TABLE 1.—*Climatological data for February, 1912. District No. 12—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Greatest in 24 hours.	Departure from the normal.	Total rainfall.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.					
Washington—Contd.																							
Hatton.	Adams.	1,100	6	37.8	.....	57	16	20	28	1.06	.....	0.42	0	10	3	7	19	sw.	A. V. Marion.		
Huntsville.	Columbia.	1,400	3	.....	.....	.....	.....	.....	.....	2.00	.....	0.70	0	7					nw.	Mrs. S. J. Hill.	
Irene Mountain.	Okanogan.	3,015	2	.....	.....	.....	.....	.....	.....	0.42	.....	0.15	6.0	8	3	13	13	nw.	Mrs. Manda Shain.		
Kennewick.	Benton.	368	16	41.8	+ 4.0	61 ^a	16	17 ^a	27	38 ^a	0.60	- 0.14	0.13	0	8				nw.	R. E. Reed.			
Kettle Falls.	Stevens.	1,265	2	32.7	.....	49	16	11	4	30	1.20	.....	0.35	0	6	8	11	10	.....	Harry H. Cole.	
Kiona.	Benton.	430	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kosmos.	Lewis.	775	5	42.8	.....	63 ^a	1	25 ^a	27	34 ^a	7.12	.....	1.54	0	19	5	13	11	ne.	J. A. Ulsh.	
La Center.	Clark.	250	14	40.8	+ 0.4	57	1†	21	29	5.65	.....	1.34	0.87	0	18	6	15	8	se.	Joseph Brothers.		
La Crosse.	Whitman.	1,400	2	37.8	.....	54	10†	20	28	4.46	.....	0.53	T.	10	10	8	11	sw.	M. E. Schreck.		
Lake Clealum.	Kittitas.	2,171	2	.....	.....	.....	.....	.....	.....	.....	.....	0.92	9.0	14	6	2	21	nw.	U. S. Reclamation Service.		
Lake Kachess.	do.	2,235	3	32.2	.....	47	10	11	29	6.46	.....	1.55	15.0	12	17	7	5	n.	Do.		
Lake Keechelus.	do.	2,479	3	.....	.....	.....	.....	.....	.....	.....	.....	2.30	54.0	17	8	1	20	e.	Do.		
Lakeside.	Chelan.	1,118	20	33.6	+ 3.6	50	16†	17	29	4.86	.....	- 0.47	0.27	3.5	8	3	18	s.	W. H. Van Meter.			
Laurel.	Klickitat.	1,900	2	.....	.....	.....	.....	.....	.....	.....	.....	6.41	.....	1.00	3.9	14	3	21	w.	Mrs. Minnie E. Strout.	
Laurier.	Ferry.	1,644	1	31.6	.....	49	14	7†	4	32	1.56	.....	0.30	6.5	13	2	19	e.	Mrs. J. S. Myers.		
Lester.	King.	1,614	7	39.7	.....	58 ^a	10†	22	25	24*	2.92	.....	0.80	3.0	7	8 ^a	4 ^a	16 ^a	e.	Augustine Smith.	
Lone Tree.	Chehalis.	14	2	45.2	.....	54	1	34	24†	17	8.47	.....	2.04	0	19	6	7	16	e.	U. S. Engineer Corps.	
Longmire Springs.	Pierce.	2,800	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lost Creek.	Okanogan.	3,125	2	.....	.....	.....	.....	.....	.....	1.66	.....	1.14	0	5	7	8	14	se.	P. H. Leese.		
Lucerne.	Chelan.	1,100	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McConibie.	Grant.	1,072	36.5	.....	57	16	19	2	23	0.37	.....	0.12	0.2	6	13	3	13	n.	Paul M. McConibie.		
McCumbers Ranch.	Yakima.	2,182	2	.....	.....	.....	.....	.....	.....	.....	.....	4.80	.....	1.20	1.0	10	9	10	sw.	Mrs. Mary McCumber.	
Moses Lake.	Grant.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.59	.....	0.22	T.	7	11 ^b	9 ^b	sw.	C. C. Ward.	
Mottinger.	Benton.	307	11	43.0	+ 3.8	62	16	26	28	32	0.86	- 0.26	0.23	0	10	13	6	6	17	G. H. Mottinger.		
Mount Pleasant.	Clallam.	500	37.6	.....	.....	52	9	26	29	16	2.61	.....	0.40	0	13	6	6	17	.....	Wm. M. Dorr.	
Moxee.	Yakima.	1,000	19	38.4	+ 4.0	59	16	16	28	37	0.58	- 0.39	0.21	0	14	12	11	6	.....	H. B. Scudder.		
Newport.	Stevens.	2,400	1	30.5	.....	47	16	1	28	38	2.46	.....	0.50	9.5	9	8	10	11	e.	Chas. M. Talmadge.	
Nighthawk.	Okanogan.	3,050	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Head.	Pacific.	211	9	46.4	+ 4.3	59	1	36	29	14	4.94	- 0.85	1.10	0	19	7	6	16	e.	U. S. Weather Bureau.			
Northport.	Stevens.	1,350	12	32.1	.....	48	14†	10	27	31	1.33	- 0.41	0.35	5.0	13	17	5	7	n.	W. F. Case.		
North Yakima.	Yakima.	1,070	2	38.8	.....	60	17	18	28	29	0.55	.....	0.19	0	8	10	10	9	nw.	Albert Bender.	
Nutland.	Klickitat.	2	40.6	.....	.....	56	17	26	27	21	1.30	.....	0.28	T.	13	13	16	se.	Ruth J. Shepard.		
Odessa.	Lincoln.	1,540	8	36.1	.....	52	16	19	27	26	0.75	.....	0.40	T.	6	7	16	sw.	Wm. V. Neeley.		
Olga.	San Juan.	50	21	43.4	+ 3.0	55	7†	30	27	18	2.74	- 0.33	0.61	0	10	10	7	12	n.	Cecil S. Willis.			
Olympia.	Olympia.	200	33	42.8	+ 2.5	57	9†	24	28†	29	6.85	+ 0.03	1.30	0	15	6	10	13	sw.	M. O'Connor.			
Omak.	Thurston.	850	2	33.4	.....	52	18	10	2	29	0.74	.....	0.28	0	6	9	6	14	s.	Saint John Umbrite.	
Oroville.	Okanogan.	922	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parker.	Yakima.	3.13	0.67	20.8	12	15	6	8	sw.	Samuel Gruell, sr.		
Peela.	Garfield.	5,000	2	25	2.97	+ 1.02	0.65	0	10	8	6	15	w.	Peter McClung.	
Pomeroy.	do.	1,500	19	37.8	+ 1.1	53	10†	15	28	25	4.00	- 0.71	0.90	0	19	3	10	16	se.	U. S. Weather Bureau.		
Port Crescent.	Clallam.	259	16	40.4	+ 3.2	58	9	26	27	21	4.00	- 1.15	0.19	0	10	10	2	17	sw.	Frank Plummer.		
Port Townsend.	Jefferson.	30	21	43.4	+ 2.8	58	7†	31	27	15	0.77	- 0.74	0.65	10.0	13	4	8	17	sw.	State Agricultural College.		
Pullman.	Whitman.	2,550	19	33.5	+ 0.7	49	10	10	28	24	2.84	.....	2.08	0	22	9	2	18	s.	C. A. Bullard.		
Queets River.	Chehalis.	300	4	43.4	.....	55	5†	29	27	20	10.52	.....	2.76	0	18	8	5	16	sw.	A. V. Higley.	
Quinault.	do.	2,628	11	29.2	+ 3.7	49	16	1	28	33	0.70	.....	0.17	1.0	10	8	5	16	nw.	Geo. B. Stocking.		
Republic.	Ferry.	1,135	4	35.5 ^c	.....	49 ^c	16	20 ^b	29	21 ^c	1.55	.....	0.52	1.0	7	8 ^b	5 ^b	14 ^b	se.	J. W. Nicol.	
Rex Creek.	Chelan.	1,825	12	33.1	1	46	10†	11	28	29	5.13	0.32	11	11	10	1	n.	Agent N. P. Ry.		
Ritzville.	Klickitat.	.....	.....	.....	.....	52	17	19	28	24	1.92	.....	1.08	5.0	12	5	23	1	.....	R. R. Couger.	
Rock Lake.	Whitman.	1,910	5	35.4	52	17	19	28	24	1.92	0.53	1.0	9	14	5	10	1	sw.	P. M. Ramsey.		
Rosalia.	do.	2,425	19	34.5	+ 3.0	48	6†	15	24	23	1.70	+ 0.02	0.35	4.1	10	6	10	13	sw.	Hans Mummu.			
Russells Ranch.	Yakima.	2,870	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seattle.	King.	123	20	43.9	+ 3.4	55	9	31	24	18	3.11	- 0.85	0.63	0	19	6	8	15	s.	U. S. Weather Bureau.			
Sedro Woolley.	Skagit.	38	14	42.4	+ 1.8	53	7	25	29	22	3.25	- 1.53	0.60	0	19	7	4	18	sw.	Mrs. H. L. Devin.			
Sixprong.	Klickitat.	1,240	4	40.5	.....	56	17	26	25	23	0.63	.....	0.22	0	8	9	4	16	sw.	C. E. Comstock.	
Skagit Power Dam.	Whatcom.	510	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Snohomish.	Snohomish.	100	17	41.0	0	55 ^a	2	22 ^a	24 ^a	32 ^a	3.00	- 2.00	0.50	1.0	10	9	9	11	.....	A. M. Richardson.		
Snoqualmie Falls.	King.	667	12	43.4	.....	56	1	25	29	24	4.56	- 1.73	0.72	0	20	12	2	15	.....	O. N. Wiswell.	
Snoqualmie Pass.	do.	3,000	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.0	.....	.....	.....	.....	.....	.....
Snyders Ranch.	Okanogan.	2,200	2	27.1	51	16	—	1	28	39	1.00	0.45	5.0	3	14	8	7	nw.	Geo. M. Snyder.		
South Bend.	Pacific.	16	44.4	+ 1.2	61	2	28	28	28	28	4.79	- 1.97	0.21	0	17	9	6	14	w.	Winnifred E. Buckingham.			
Spokane.	Spokane.	1,943	30	35.2	+ 5.1	51	16	18	2	21	1.78	- 0.15	0.50	2.0	11	4	10	15	s.	U. S. Weather Bureau.			
State University.	King.	170	2	0.89	0.33	6.1	6	14	11	4	nw.	Chas. W. Gunn.		
Stokes Ranch.	Okanogan.	2,670	2	.....	.....	58	9†	23	28	28	4.20	.....	0.54	0	18	7	6	16	sw.	H. E. Thompson.	
Summer.	Pierce.	77	3	43.3	.....	55	10	27	29	28	4.97</										

TABLE 1.—Climatological data for February, 1912. District No. 12—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.							Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.			Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.			Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast cloudy days.	
					Highest.	Date.	Greatest daily range.					Total.	Departure from the normal.	Greatest in 24 hours.							
<i>Oregon—Continued.</i>																					
Bay City.	Tillamook.	14	18	47.0	66	1	27	28	28	9.93	2.13	0	20	7	3	19	nw.	John O. Bozorth.			
Beech Creek.	Grant.	4,500	29.9	45.3	1	23	32	1.53	0.30	20.0	10	8	5	16	e.	G. G. Carson.					
Bend.	Crook.	3,629	30	37.4	53	28	18	24	26*	1.19	0.50	0.5	7	10*	13*	5*	sw.	Bend Bulletin.			
Black Butte.	Lane.	1,200	11	42.0	+ 2.0	55	8†	27	19	23	6.65	- 1.09	1.40	0	12	10	7	12	nw.	Wm. Harris.	
Blalock.	Gilliam.	237	14	42.4	+ 4.0	58*	17	28*	26†	23*	0.83	- 0.47	0.16	8	2	7*	19*	e.	Geo. W. Long.		
Brogan.	Malheur.	2,600	1	35.4	52	19	22	26	24	0.72	0.56	0	2	14	3	12	s.	A. B. Cox.			
Burns.	Harney.	4,157	21	32.4	+ 5.4	49	17	6	28	32	1.35	- 0.06	0.26	0	9	1	9	19	w.	J. C. Welcome, Jr.	
Cascade Locks.	Hood River.	100	22	42.0	+ 2.7	55	16	30	25†	22	11.92	+ 1.99	2.27	0	20	9	2	18	se.	Alf. Tomkins.	
Cliff.	Clackamas.	503	3	45.8	59	3	29	28	34	6.75	0.75	0	19	5	8	16	sw.	Alf. Drill.			
Condon.	Lake.	4,300	5	33.7	48	7†	5	25	37	0.89	0.18	T.	10	4	9	16	sw.	John C. Green.			
Corvallis.	Gilliam.	2,884	5	46.4	+ 4.9	57	4†	31	19†	21	5.23	- 0.67	0.72	0	21	8	8	13	sw.	C. H. Williams.	
Crescent.	Benton.	266	24	46.4	+ 4.9	57	4†	31	19†	21	5.23	- 0.67	0.72	0	21	11	7	17	sw.	Oreg. Agr. College.	
Dayville.	Klamath.	4,400	32.2	51	5	9	26	52	4.76	1.07	9.0	12	11	7	13	nw.	A. M. Calke.				
Deadwood.	Grant.	2,200	18	39.2	+ 0.4	57	13†	16	25	30	0.38	- 0.92	0.07	1.0	9	7	9	13	sw.	Dr. J. Campbell-Martin.	
Doraville.	Lane.	350	2	46.8	58	1	33	27	24	13.68	2.56	0	19	5	9	16	sw.	Jos. Slemmons.			
Drain.	Columbia.	600	10	41.9	+ 3.0	55	1†	25	28	24	5.93	- 0.33	0.95	T.	20	8	4	17	se.	Joe Hackenberg.	
Echo.	Douglas.	300	10	46.8	60	17	30	25	25	5.89	1.13	0	20	1	10	18	sw.	Ira Wimberly.			
Ella.	Umatilla.	625	8	41.8	60	10	21	29	30	0.91	0.36	0	8	7	7	15	w.	R. B. Stanfield.			
Morrow.	830	8	39.4	60	17	18	28	24	0.83	- 0.21	0.12	0	12	8	4	17	sw.	Carl Troedson.			
Eugene.	Lane.	449	22	45.5	+ 2.9	58	9†	31	29	20	4.32	- 0.39	0.61	0	17	6	6	12	sw.	University of Oregon.	
Fairview.	Coos.	142	16	45.4	+ 2.2	65	28	32	21†	33	11.90	+ 1.63	2.40	0	17	5	3	21	sw.	Wm. Bettys.	
Falls City.	Polk.	355	15	43.8	+ 3.5	64	10†	26	2	32	6.62	- 0.15	1.16	0	16	2	6	21	s.	Chas. F. Vick.	
Forest Grove.	Washington.	220	23	43.8	+ 3.5	64	10†	26	2	32	6.62	- 0.15	1.16	0	16	2	6	21	s.	Pacific University.	
Glendale.	Douglas.	1,441	8	45.4	62	16	29	21†	27	4.50	1.20	0.5	12	11	12	6	16	w.	B. J. Simpson.		
Glenora.	Tillamook.	575	21	42.3	+ 1.1	56*	19	25	28	28	16.31	- 0.23	3.80	0	15	10	0	19	sw.	Mrs. Jennie A. Reher.	
Grants Pass.	Josephine.	956	24	45.3	+ 3.0	65	28	27	32	35	3.79	- 1.51	1.22	0.8	20	2	11	16	sw.	John B. Paddock.	
Gurdane.	Umatilla.	3,500	89.2	64	8	2	25	44	2.00	0.80	10.0	7	3	14	12	s.	Miss Belle Ely.				
Headworks.	Clackamas.	719	10	41.0	59	21	29	28	19	10.31	1.44	0	22	7	10	12	sw.	Portland Water Works.			
Heppner.	Morrow.	1,950	22	38.2	+ 2.4	58	13	24	25	26	1.65	+ 0.20	0.36	T.	18	0	23	12	w.	Frank Gilliam.	
Hermiston.	Umatilla.	451	5	40.4	60	10†	16	28	34	0.74	0.31	0	10	1	12	16	sw.	C. W. Kellogg.			
Hermoso Rio.	Crook.	2,300	1	37.2	53	26	22	24	22	3.92	1.30	0	12	4	4	16	e.	Carl T. Hubbard.			
Hood River.	Hood River.	300	22	39.9	+ 3.6	55	16	25	28	25	4.20	- 0.58	0.80	6.0	12	5	4	20	w.	H. L. Hasbrouck.	
Huntington.	Baker.	2,165	11	45.0	63	1	27	25	35	2.63	1.20	0	16	16	16	16	n.	L. Connell.			
Jacksonville.	Jackson.	1,640	24	43.7	+ 2.5	60	1	27	25	29	3.71	- 0.43	1.52	1.5	12	8	9	12	s.	E. Britt.	
Joseph.	Wallowa.	4,400	33	43.7	60	1	27	25	29	3.71	- 0.43	1.52	1.5	12	8	9	12	s.	F. F. McCully.		
Klamath Agency.	Klamath.	4,169	4	32.8	48	29	8	25	30	0.53	0.29	3.0	9	9	5	15	s.	Edson C. Watson.			
Klamath Falls.	do.	4,100	23	35.6	+ 1.6	51	28	17	25	24	1.79	+ 0.19	0.95	T.	5	6	14	9	nw.	W. H. Heileman.	
La Grande.	Union.	2,734	24	34.4	+ 3.7	54	7	3	25	29	3.88	+ 2.00	0.79	20.5	17	3	15	11	nw.	W. A. Worstell.	
Lakeview.	Lake.	4,825	29	42.5	+ 2.4	58	1	27	25	35	2.63	1.20	0	16	16	16	16	sw.	Ralph C. Koozer.		
McKenzie Bridge.	Lane.	1,400	11	41.4	+ 2.4	60	1†	21	25	36	11.38	+ 1.96	1.80	2.0	23	5	0	24	sw.	Geo. Frissell.	
McMinnville.	Yamhill.	182	25	44.6	+ 3.1	68	9	28	28	32	4.91	- 0.76	0.65	0	18	13	0	16	n.	M. E. Pettit.	
Marshfield.	Marion.	34	11	47.8	+ 1.7	68	5	30	29	32	8.55	1.55	0	23	16	16	16	nw.	U. S. Weather Bureau.		
Medford.	Jackson.	1,425	1	45.0	63	1	27	25	35	2.63	1.20	0	16	16	16	16	nw.	Do.			
Merrill.	Klamath.	366	6	60*	5	11	23	31	1.03	0.52	2.5	4	12	9	7	7	7	sw.	U. S. Reclamation Service.		
Metolius.	Crook.	2,525	1	39.2	56	13	25	33	30	0.88	0.32	0	6	5	13	13	s.	W. E. Lottman.			
Mikkalo.	Gilliam.	1,400	6	39.2	57	11	21	28	23	1.52	0.35	0	12	9	5	15	w.	Frank Little.			
Miramonte Farm.	Clackamas.	195	24	43.6	+ 2.1	58	13	28	24	24	5.10	- 0.02	0.87	0	18	8	4	17	s.	G. Muecke.	
Monroe.	Benton.	350	15	44.7	+ 2.2	69	9	30	19†	24	6.48	- 1.28	1.00	0	19	6	4	19	sw.	D. A. Peek.	
Mount Angel.	Marion.	485	26	44.5	+ 2.9	61	11	30	28	22	4.48	- 0.43	1.02	0	18	7	4	18	sw.	Dr. Urban Fisher.	
Mount Hood.	Hood River.	1,650	2	33.2	+ 1.5	50	22	10	25	33	9.17	1.53	T.	20	6	4	18	s.	S. G. Babson.		
Music.	Douglas.	5,000	3	37.4	56	2	20	24	23	10.51	1.55	26.3	19	7	4	18	s.	Alex. Lundberg.			
Newport.	Lincoln.	69	25	48.4	+ 2.8	60	29	34	19†	26	5.94	- 2.92	0.95	0	21	5	9	15	nw.	Wm. Matthews.	
Paisley.	Lake.	4,500	9	40.2	55	13	21	2	20	0.08	0.08	T.	1	16	7	6	6	w.	E. C. Woodward.		
Pendleton.	Umatilla.	1,070	23	39.8	+ 2.6	59	10	22	28	22	1.77	+ 0.37	0.55	0.5	15	3	13	13	sw.	E. F. Averill.	
Pilot Rock.	do.	1,817	4	38.6	58	13	21	28	26	2.05	0.33	2.5	3	8	3	18	18	nw.	John P. McManus.		
Pompeii.	Clackamas.	3,879	17	33.2	+ 1.5	50	22	10	25	33	14.98	+ 4.31	2.60	4.70	15	6	5	18	sw.	E. Coalman.	
Portland.	Multnomah.	57	42	45.3	+ 4.0	60	9	32	24	20	4.85	- 1.07	0.79	0	18	5	6	18	se.	U. S. Weather Bureau.	
Port Orford.	Curry.	80	7	47.6	60	1†	31	24	28	13.07	2.90	0	18	8	10	12	s.	J. D. Loucks.			
Prairie City.	Grant.	3,425	34.6	59	6	3	25	37	23	2.35	0.29	5.5	6	12	9	8	10	nw.	A. M. F. Kirchheimer.		
Prineville.	Crook.	2,864	16	38.8	+ 2.7	58	14	18	26	34	1.17	+ 0.09	0.15	T.	15	12	9	8	sw.	Geo. Summers.	
Prospect.	Jackson.	2,800	6	41.0	68	1	19	25	42	7.72	-	3.10	12.0	16	4	15	10	s.	E. F. Graham.		
Ramsey.	Wasco.	1,350	11	35.9	54	17	21	5	20	2.08	0.38	0.2	3	12	9	3	17	w.	Mrs. Iva B. Collins.		
Range.	Grant.	3,500	4	30.8	49	4	4	4	40	3.07	0.40	12.0	14	9	9	11	s.	Mrs. Emma Aruckle.			
Redmond.	Crook.	1	36.6	59	10	11	25	25	32	3.16	1.26</td										

TABLE 2.—*Daily precipitation for February, 1912. District No. 12, Columbia Valley.*

Stations.	Watershed.	Day of month.																												Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
<i>Montana.</i>																																		
Anaconda.....	Missoula.....								T.		T.		T.		T.		.05	.06			T.	T.	.05	T.		.02	.03				0.21			
Butte.....	do.....								.08	.04	.08	.34	.10	.02					.45	.12	.12		.08									0.55		
Columbia Falls.....	Flathead.....																	.40	.05	.10	.12											1.63		
Como.....	Bitter Root.....																														0.84			
East Anaconda |||.....	Missoula.....																	.01	.02												0.28			
Fortine.....	Kootenai.....																														0.39			
Hamilton.....	Bitter Root.....																														0.37			
Hat Creek.....	Missoula.....																	.06														0.87		
Hangan.....	do.....																	.09	.42	.03											3.21			
Kalispell.....	Flathead.....																	.02	.06	.10	.01										0.48			
Libby.....	Kootenai.....																	.14	.07												0.55			
Lost Creek.....	Missoula.....																														0.32			
Missoula.....	do.....																	.02														0.27		
Ophir.....	do.....																	T.	.16													0.96		
Ovando.....	do.....																	.05	.09												1.46			
Philipsburg.....	do.....																	.06	.10												0.43			
Plains.....	Columbia.....																														0.46			
Pleasant Valley.....	Kootenai.....																	T.	.04													1.04		
Polson.....	Flathead.....																	.04														0.59		
Proctor.....	do.....																														0.20			
St. Ignatius.....	do.....																														0.60			
Saltsees.....	Missoula.....																	.24	.22												2.90			
Stevensville |||.....	Bitter Root.....																	.01	.02	.08	.62	T.	T.	.45	.10						0.47			
Thompson Falls.....	Columbia.....																														1.27			
Willow Glen Stock Farm, |||.....	Missoula.....																														T.			
<i>Wyoming.</i>																																0.80		
Afton.....	Snake.....																														1.19			
Alta.....	do.....																	.05	.15	.10	.32										3.32			
Bechler River.....	do.....																														2.35			
Bedford.....	do.....																	.02	.21	.01	.04										1.75			
Moran.....	do.....																	.06	T.	.05											1.48			
Snake River.....	do.....																																	
<i>Nevada.</i>																																0.82		
San Jacinto.....	Snake.....																																	
<i>Utah.</i>																																0.73		
Standrod.....	Raft.....																	.03	.01	T.														
<i>Idaho.</i>																																		0.81
Albion.....	Snake.....																	.10	.05	.03														
Almo.....	do.....																																	0.94
American Falls.....	Oneida.....																																2.49	
Arrow Rock.....	Boise.....																	.36	.24														0.81	
Blackfoot |||.....	Blackfoot.....																	T.	.20														1.92	
Blackfoot Dam.....	do.....																	.17	.28	.11	.15										1.30			
Bock's Ranch.....	Boise.....																	.02	.08													1.96		
Bogus Creek.....	Payette.....																	.01	.60	.18	.32										3.40			
Boise.....	Boise.....																	.01	.33	.41	T.										1.84			
Bonners Ferry.....	Kootenai.....																	.04	.33	.37	T.										0.90			
Boulder Mine.....	Boise.....																	.06	.40	.33	.19	T.									3.97			
Buhl.....	Snake.....																														1.81			
Caldwell.....	Boise.....																	.32	.16	.23														
Camas.....	Lost River region.....																	T.														0.22		
Cambridge.....	Weiser.....																	.80														2.84		
Cedar Creek Dam.....	Snake.....																	T.	.09	.03	.15	T.									2.16			
Chesterfield.....	Port Neu.....																	T.	.10													1.13		
Clarks Fork.....	Pend d'Oreille.....																	.45	.08	.10	.05										2.57			
Clyde.....	Clearwater.....																	.90														2.18		
Council.....	do.....																														0.74			
Culdesac.....	do.....																														1.94			
Deary.....	do.....																	T.	.11	.25												1.50		
Dent.....	Snake.....																	T.	.21		T.											4.66		
Driggs.....	Payette.....																	.27	.04	.21	T.										1.50			
Emmett.....	Salmon.....																	.20	.46		T.					</td								

TABLE 2.—*Daily precipitation for February, 1912. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																										Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
<i>Idaho—Continued.</i>																														
Nezperce	Clearwater																													2.10
Oakley	Snake																													1.15
O'Hara Bar	Clearwater																													4.85
Orofino	do																													1.18
Payette	Payette																													1.91
Pebble	Port Neuf																													1.36
Pierson	do																													1.91
Pine	Boise																													2.04
Pleasant Valley	do																													1.34
Pocatello	Port Neuf																													0.92
Pocatello Nursery	do																													0.92
Poplar	Snake																													1.23
Portland	Kootenai																													1.08
Powers Ranch	Boise																													4.17
Priest River Ex. Sta. No. 1	Pend d'Oreille																													3.30
Priest River Ex. Sta. No. 2	do																													3.30
Priest River Ex. Sta. No. 3	do																													3.30
Pyle Creek	Payette																													3.27
Rattlesnake Creek	Boise																													2.84
Richfield	Wood-Malad																													0.59
Roseberry	Payette																													1.69
Ruby Creek	Boise																													4.29
Rupert	Snake																													0.90
St. Maries	St. Joe	T.	T.																											3.37
Salmon	Salmon																													0.80
Sandpoint	Pend d'Oreille																													2.31
Sheep Hill	Boise																													3.90
Shoshone	do																													0.98
Silver City	Wood-Malad																													3.38
Smith Prairie	Owyhee																													2.98
Soldier Creek	Boise																													1.06
Spirit Lake	Wood-Malad																													3.83
Springfield	Pend d'Oreille																													0.33
Sugar ||	Snake																													0.35
Sunnyside	do																													0.35
Tripod Mountain	Payette																													3.13
Twin Falls	Snake																													0.64
Vernon	do	T.	T.																											3.76
Wallace	Coeur d'Alene																													1.40
Weiser	Weiser																													1.51
Wendell	Wood-Malad																													
<i>Washington.</i>																														
Aberdeen	Coast	.34	.26	.89	.09	2.08	.80	.31	.21	.72	.207	.58	.41	.72	.04	.10	.65	.17	.03										10.47	
Anacortes	Puget Sound	.13	.08	.14	.33	.06	.19	.01	.06	.51	.37	.10	.07	.16	.02	.04	.02	.02	.02										2.23	
Baker	do	T.	.04	.40	1.23	.21	.67	.41	.105	.38	.48	1.27																6.74		
Bellingham	do	T.	.20	.10	.45	.06	.04	.06	.27	.05	.22	.10																1.35		
Bellingham (near)	do	.21	.07	.05	.50	.10	.14	.37	.38	.50	.10	.01																2.53		
Beverly	Columbia																													
Blaine	Puget Sound	.15	.22	.14	.08	.79	.02	.30	.28	.18	.20	.30	.33	.02															3.50	
Blewett	Wenatchee	.10	.02	.10	.60	.01	.20	.20	.40	.09	.30	.04	.10															1.96		
Bremerton	Puget Sound	.22	.10	.23	.92	.36	.41	.36	.34	.52	.22	.10	.06															3.74		
Brewster	Columbia	T.	.04	.06	.07	.14	T.	T.	.28	.04	.01	.03	.10															0.68		
Bumping Lake	Yakima	.02	.02	T.	.02	.95	.05	.02	.10	.03	.03	.00	.04	.03	.80	.50	.10	.00									4.71			
Cedar River	Puget Sound	.23	.40	.79	.48	.16	.44	.66	.53	.40	.12	.73	.07	.13													5.33			
Centralia	do	.35	.13	T.	.29	.05	.70	.35	.29	.03	.55	.20	.88	.29	.58	.26	.05	.33	.02								5.35			
Cheney	Spokane																													
Cle Elum	Yakima	.14	.17	.07	.39	.04																						3.28		
Clearbrook	Puget Sound	.30	.38	.20	.06	.08	.38	.31	.66	.57	.62	.29	.09															5.49		
Colfax	do																													2.80
Colville	Columbia																													0.85
Conconully	Okanogan																													0.47
Cowiche	Yakima																													0.64
Crescent	Spokane																													
Darrington	Puget Sound																													8.83
Davenport	Columbia	.05																												1.19
Dayton	do	.07																												2.51
Deer Park	Spokane	.05																												2.19
Detroit	Puget Sound	.37	.10	.35	.28	.14	.31	.30	.75	.15	.16	.83	.42	.04			</													

TABLE 2.—*Daily precipitation for February, 1912. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for February, 1912. District No. 12—Continued.*

TABLE 2.—*Daily precipitation for February, 1912. District No. 12—Continued.*

Stations.	Watershed.	Day of month.																											Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
<i>Oregon—Continued.</i>																														
Rock Creek.....	Willamette.....	.91		.13	.56	.25	1.04	.80				1.19	.14	1.98	.77	.27		.37	.18	.14	.38	.50		.08	.70	.62				11.01
Roseburg.....	Umpqua.....	.01	.01	.37	.08	.10	.03	.23	.14	.02	.14	.02	.73	.64	.64	.02		.09		.30	.02			T.	.01				3.60	
Rosland.....	Deschutes.....	.06				.10	.08	.04	.20	.09				.75	.08	1.10	.10				.21	.28								3.99
Salem.....	Willamette.....	.59	.19	.35	.26	.58	T.	.14		.50	.04	.32	.10	.05	.14		.05	.20	.26	.04	T.	T.	.13							3.94
Seneca.....	S. E. drainage.....	.12	.08			T.	.08	.09		T.	T.	.05	.07	.13	.02	.01		.16	.24	10	T.			.05	.13				1.42	
Silver Lake.....	do.....	.09	.06																											0.22
Siskiyou.....	Rogue.....																													3.16
Sisters.....	Deschutes.....	.10	.03	.01	.06	.15	.08		.10	.01	.01			.33	.54	.65	.70			.03	.35								3.15	
Sparta.....	Snake.....																													2.50
Stafford.....	Willamette.....	.47	.23		.24	.34	1.06	.30	.18		.54		1.00	.41	.09	.31		.31	.01	.26									5.83	
Starkey.....	Grande Ronde.....																													2.39
Summit.....	Willamette.....	.52	.12	.05	.38	.22	.82	.35	.58		.52	.17	1.84	.49	.21	.75	.03	.16	.05	.81	.37	.02	.18	.30	.33				9.26	
Summit Prairie.....	Deschutes.....																													
Susanville.....	John Day.....	.20																												2.68
Tamarack.....	do.....	.10																												1.55
Telocaset.....	Snake.....																													1.81
The Dalles.....	Columbia.....	.20	.05																											2.03
Timroo.....	Umatilla.....																													
Toledo.....	Coast.....																													7.85
Trail.....	Rogue.....	.11	.02		.11	.18	.23	.13	.04		.02	.03	.45	.95	1.48	.10		.02	.01	.38	.14									4.40
Trask.....	Coast.....																													
Umatilla.....	Columbia.....																													0.56
Union.....	T. 0.07	.04	.02																											1.91
Vale.....	Grande Ronde.....																													0.78
Valley Falls.....	Malheur.....																													
Van.....	S. E. drainage.....																													1.08
Vida.....	do.....																													
Wallace Orchard.....	Willamette.....	.21	.06		.08	.39	.67	.14	.53		.46	.51	1.49	1.11	1.33	.83	.06	.10	.15	.82	.54	.03	T.	.40	.64				10.55	
Walloupa.....	Grande Ronde.....																													2.66
Wallowa.....	do.....	.04			.02	.53	.14	.10		T.		.42	.46	.36	.37			T.	.12	.10								1.43		
Wamic.....	Deschutes.....																													1.78
Warmingspring.....	do.....	.07																												1.05
Wasco.....	Columbia.....	.18	.07	.08	.03	.10	.25	.25			.11		.42	.03	.61	.03													2.25	
Weiches.....	do.....	.58																												13.44
Westfall.....	Malheur.....																													
Weston.....	Walla Walla.....	.15			.03	.02	.11	.21	.31		.01	.08	.10	.36	.02	.20	T.		.15	.58	.25	.68		T.	T.	T.		3.26		
Williams.....	Rogue.....	.24																												4.24
Yonna.....	Interior drainage.....	.07	.15																											1.68

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

‡ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for February, 1912. District No. 12, Columbia Valley.*

Date.	Montana.				Afton, Wyo.		Idaho.																					
	Kalispell.		Missoula.				Bolse.		Bonners Ferry.		Hot Spring.		Lewiston.		Mackay.		New Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.		Wallace.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	30	12	39	16	29	-4	39	26	40	12	42	32	48	30	32	7	.....	35	16	17	-1	34	9	24	1	34	20
2....	25	6	39	14	25	-11	32	25	37	12	40	26	44	27	29	9	.....	34	12	15	-5	29	8	25	-2	32	18
3....	24	9	39	15	27	-10	34	26	37	10	33	28	40	28	30	5	.....	28	18	18	-4	28	16	26	-2	38	19
4....	20	15	37	14	28	-8	36	26	33	9	38	26	39	28	35	12	.....	38	15	26	2	35	12	30	0	40	20
5....	25	16	36	23	29	0	41	31	36	17	42	30	50	36	36	13	.....	40	24	30	20	39	25	46	5	45	30
6....	33	25	47	31	40	10	47	34	39	27	50	34	50	36	32	18	.....	41	26	35	20	40	24	38	8	47	34
7....	34	32	39	27	37	10	45	33	40	29	52	30	43	37	35	18	.....	45	27	33	16	44	28	40	20	38	30
8....	43	30	46	31	32	4	49	34	45	30	54	32	52	36	41	21	.....	40	27	36	18	44	27	32	25	41	34
9....	33	24	39	26	41	19	47	39	40	28	52	38	45	36	38	22	.....	43	35	29	6	42	29	35	11	39	29
10....	40	27	47	31	45	28	48	36	44	30	54	35	44	28	.....	44	35	37	24	46	34	37	27	43	35		
11....	39	26	44	30	45	23	46	33	47	23	55	34	56	37	30	14	.....	41	30	34	18	38	29	39	28	37	32
12....	39	22	44	30	40	16	45	29	44	23	50	28	52	34	32	13	.....	40	24	35	16	37	18	32	13	37	28
13....	34	23	43	27	28	-6	52	35	43	28	54	36	53	40	35	14	.....	42	26	34	14	43	26	35	12	43	30
14....	45	28	49	30	29	5	48	34	45	29	52	33	57	37	40	16	.....	40	26	33	10	41	27	40	11	42	34
15....	40	29	43	29	37	5	45	33	41	30	56	30	45	35	34	15	.....	44	33	32	16	41	28	33	14	38	32
16....	46	32	49	33	40	27	52	39	47	30	60	40	59	41	39	18	.....	43	38	44	26	44	33	38	20	42	32
17....	45	34	44	32	38	23	49	39	47	32	60	40	54	42	39	22	.....	43	37	44	28	43	32	36	18	44	32
18....	40	30	38	32	40	24	44	33	40	30	51	34	50	41	36	17	.....	41	29	42	29	39	32	34	28	35	33
19....	38	23	39	28	31	16	42	32	45	21	50	34	52	32	13	.....	36	27	34	15	40	26	23	10	36	29	
20....	36	17	42	24	24	-9	41	27	40	21	50	24	48	29	30	6	.....	38	20	26	6	37	18	33	-3	36	19
Mns..	34.7	21.3	40.7	24.6	33.2	6.1	42.8	30.6	40.8	22.4	48.3	30.3	47.6	33.3	33.8	14.0	.....	38.3	24.0	32.3	12.3	38.5	23.2	33.2	11.5	38.1	26.7

Date.	Washington.														Tatoosh Island.													
	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sixprong.		Spokane.		Tacoma.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	59	35	48	30	38	12	63	35	38	21	59	51	48	25	40	28	48	34	54	39	41	29	39	20	56	33	54	44
2....	55	36	46	28	35	10	60	28	30	20	52	42	42	22	41	26	47	31	50	33	46	26	38	18	48	32	47	43
3....	55	30	45	27	35	11	61	27	26	18	57	43	33	26	40	26	42	30	47	32	33	38	18	41	30	53	42	
4....	47	33	45	28	31	10	47	39	30	21	48	43	35	23	37	24	45	35	45	33	35	29	32	43	31	51	42	
5....	52	42	48	40	33	21	55	41	36	25	57	46	39	32	38	32	45	42	51	43	46	31	38	30	50	42	53	45
6....	48	-39	51	33	40	26	60	41	39	31	54	46	42	34	44	35	49	40	45	40	39	34	43	34	45	40	54	46
7....	50	43	54	42	36	33	53	39	40	31	50	46	42	36	38	34	49	43	44	44	35	38	32	53	43	51	46	
8....	49	36	52	41	40	32	51	38	42	33	48	44	46	37	42	31	49	36	52	44	51	35	39	32	52	42	49	43
9....	52	42	52	41	36	32	51	41	40	32	50	47	44	36	42	33	58	37	55	42	50	40	42	31	55	42	52	43
10....	49	42	52	40	42	33	50	36	38	32	50	47	48	30	40	36	47	36	54	44	44	47	35	56	44	48	44	44
11....	51	37	50	42	40	31	51	40	43	32	50	42	56	29	50	32	49	33	52	43	53	44	49	34	51	39	49	42
12....	52	39	48	34	38	29	49	34	35	24	52	42	48	28	47	33	45	35	52	40	46	31	41	24	48	36	47	42
13....	53	37	53	40	42	31	49	39	43	30	51	46	54	31	48	28	47	39	53	43	55	32	46	24	55	43	49	46
14....	52	39	50	42	48	33	53	39	41	32	50	45	52	28	42	34	48	36	52	43	54	34	48	30	54	43	48	44
15....	52	43	50	43	38	28	51	39	31	31	51	46	48	36	43	35	51	40	52	43	52	36	44	35	53	44	49	44
16....	51	43	50	43	50	31	49	41	50	33	50	44	58	33	52	33	49	37	49	44	54	44	51	38	50	44	50	42
17....	48	43	50	39	43	32	48	40	50	34	50	45	60	33	50	34	47	38	50	44	56	43	48	38	50	40	47	43
18....	51	38	49	41	50	32	42	35	50	34	47	41	50	38	46	26	44	35	44	39	49	38	45	38	47	40	40	40
19....	52	29	48	31	45	20	50	34	50	28	51	41	54	32	49	25	47	31	47	36	50	34	42	32	49	34	47	39
20....	48	34	46	32	35	15	51	29	36	25	47	41	48	26	44	27	45	33	49	34	44	30	43	25	49	31	46	41
21....	50	33	44	30	40	28	46	36	40	28	48	42	53	26	40	28	46	32	46	40	52	3						

TABLE 3.—*Maximum and minimum temperatures at selected stations for February, 1912. District No. 12—Continued.*

Date.	Walla Walla, Wash.		Oregon.																					
			Ashland.		Baker.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	34	31	61	36	32	16	50	38	58	40	42	32	66	34	52	42	50	25	55	40	44	30	35	29
2.....	35	31	52	33	29	14	50	34	52	47	36	26	53	39	50	39	52	26	46	40	41	35	35	29
3.....	33	30	51	35	28	16	45	35	55	42	35	31	52	36	48	39	43	27	60	40	38	34	32	26
4.....	36	31	58	43	34	23	45	44	58	48	41	31	55	46	41	37	50	30	53	46	39	34	35	26
5.....	36	31	61	42	40	29	45	41	58	49	41	36	68	49	49	39	51	30	54	47	43	35	41	32
6.....	39	34	64	50	41	34	48	38	58	48	45	36	61	45	49	43	53	30	54	46	44	36	45	37
7.....	45	35	57	42	44	34	55	40	54	51	46	33	55	47	48	43	54	30	57	44	46	37	43	24
8.....	51	38	51	42	42	31	54	43	55	50	55	36	57	46	45	38	54	30	58	48	45	35	46	29
9.....	56	39	58	47	40	34	58	48	56	52	50	34	55	52	60	45	52	36	59	49	46	39	45	34
10.....	58	45	52	47	36	30	57	45	56	48	60	35	54	41	56	44	53	28	57	46	50	36	39	32
11.....	53	41	50	37	42	29	56	42	56	41	57	40	52	42	55	41	50	28	54	37	54	36	51	33
12.....	53	36	52	32	40	22	50	36	60	42	50	25	52	37	50	38	50	22	52	35	50	31	45	23
13.....	52	34	60	42	45	33	57	42	57	48	54	31	54	47	56	44	54	32	59	45	50	36	50	33
14.....	54	43	52	42	42	30	57	43	55	42	58	33	56	45	57	40	58	31	56	45	55	35	53	30
15.....	53	43	51	41	40	29	53	46	53	47	56	37	54	45	54	46	50	30	55	47	52	32	47	27
16.....	56	46	53	45	50	34	54	46	54	50	60	42	54	48	54	48	53	30	55	47	57	43	57	30
17.....	56	43	54	45	42	34	58	47	54	51	56	46	54	49	56	46	52	34	59	47	59	48	53	39
18.....	48	38	48	35	42	28	54	38	58	48	54	39	55	38	51	41	50	30	52	37	53	41	50	32
19.....	50	35	50	28	38	26	53	37	55	38	50	30	56	32	50	37	53	20	50	36	52	33	48	29
20.....	46	35	46	31	37	20	52	34	54	39	50	21	54	37	48	36	47	21	50	35	46	29	44	21
21.....	45	32	45	31	36	27	53	34	50	36	50	34	50	36	51	40	48	26	49	36	51	35	47	26
22.....	42	38	38	29	33	26	48	35	48	37	50	40	49	35	46	40	50	21	48	34	47	39	43	27
23.....	48	36	40	34	34	21	48	37	48	39	52	39	51	40	50	38	51	20	46	35	51	39	42	27
24.....	45	31	44	32	32	18	50	35	50	32	49	29	51	34	49	32	53	19	49	33	48	31	44	32
25.....	45	30	47	28	31	11	48	32	52	37	44	20	54	34	44	36	50	21	52	31	48	29	47	19
26.....	45	37	51	31	34	22	53	40	53	39	48	30	56	36	48	40	50	16	57	40	53	34	41	28
27.....	46	32	51	38	36	22	52	41	54	41	54	21	56	44	51	35	50	30	55	40	52	31	48	32
28.....	47	28	55	33	34	12	50	35	56	41	50	16	60	36	53	33	50	23	57	38	53	25	44	20
29.....	44	27	54	33	34	20	51	31	53	40	47	27	53	30	51	35	51	23	48	34	48	34	41	24
Mean.....	46.6	35.5	51.9	37.4	37.5	25.0	51.9	39.1	54.3	43.5	49.8	32.1	55.0	40.5	50.8	39.8	51.1	26.5	53.2	40.6	48.8	34.9	44.5	28.4

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.^d Data are from standard instruments not supplied by the U. S. Weather Bureau.^e Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.